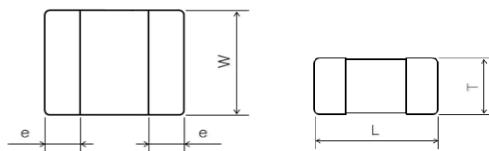


# Spec Sheet

Wire-wound Metal Power Inductors MCOIL™ LCEN series for Automotive Body & Chassis and Infotainment

## LCENA2520MKTR47M0NK (Previous PN: MEMK2520TR47MGNKV)



### Features

- Item Summary  
0.47uH±20%, 3.7A( $\Delta L=30\%$ ,  $\Delta T=20^\circ\text{C}$ ),  
1008/2520 (EIA/JIS)
- Lifecycle Stage  
Mass Production (Preferred)
- AEC-Q200 qualified
- Standard packaging quantity (minimum)  
Taping Embossed 3000pcs

### Products characteristics table

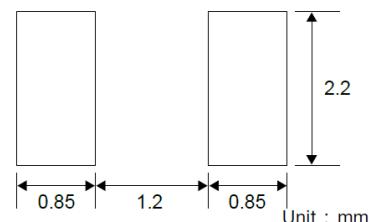
Inductance	0.47 uH $\pm 20\%$
Case Size (EIA/JIS)	1008/2520
Rated Current (max)	3.7 A ( $\Delta L=30\%$ , $\Delta T=20^\circ\text{C}$ ), 5 A ( $\Delta L=30\%$ , $\Delta T=40^\circ\text{C}$ )
Saturation Current (max)	5.9 A ( $\Delta L=30\%$ )
Saturation Current (typ)	6.5 A ( $\Delta L=30\%$ )
Temperature Rise Current① (max)	3.7 A ( $\Delta T=20^\circ\text{C}$ )
Temperature Rise Current① (typ)	4 A ( $\Delta T=20^\circ\text{C}$ )
Temperature Rise Current② (max)	5 A ( $\Delta T=40^\circ\text{C}$ )
Temperature Rise Current② (typ)	5.4 A ( $\Delta T=40^\circ\text{C}$ )
DC Resistance (max)	20 m $\Omega$
DC Resistance (typ)	17 m $\Omega$
Absolute Maximum Voltage	40 V
Operating Temp. Range	-40 to +125 °C (Including-self-generated heat)
Temperature characteristic (Inductance change)	$\pm 15\%$
Measuring Frequency	1 MHz
RoHS Compliance (10 subst.)	Yes
REACH Compliance (251 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

### External Dimensions

Dimension L	2.5 $\pm 0.2$ mm
Dimension W	2.0 $\pm 0.2$ mm
Dimension T	Max 1.2 mm
Dimension e	0.6 $\pm 0.3$ mm

### Recommended Land Patterns

<b>【推奨ランドパターン】</b> 実装上の注意 ・実装状態を確認の上ご使用くださいますようお願いいたします。 ・本製品のはんだ付けはリフローはんだ工法に限ります。
<b>[Recommended Land Pattern]</b> Surface Mounting • Mounting and soldering conditions should be checked beforehand. • Applicable soldering process to these products is reflow soldering only.



The data is reference only. Electrical characteristics vary depending on environment or measurement condition.  
TAIYO YUDEN reserves the right to make change to the Data at any time without notice.  
Before making final selection, please check product specification.

2025.11.20